



0590
12/9

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/837,604
Source: OIP
Date Processed by STIC: 01/02/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

09837604

OIPE

**Does Not Comply
Corrected Entry Needed****RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/837,604

DATE: 01/02/2003

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

1 <110> APPLICANT: Bougri, Olegs
 2 Byrum, Joseph R.
 3 De La Pena, Robert C.
 4 La Rosa, Thomas J.
 5 Shukla, Hridayabhiranjan
 7 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 8 Plants
 10 <130> FILE REFERENCE: 38-21(51892)B
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/837,604
 C--> 12 <141> CURRENT FILING DATE: 2002-12-13
 12 <150> PRIOR APPLICATION NUMBER: US 60/197,872
 14 <151> PRIOR FILING DATE: 2000-04-19
 16 <160> NUMBER OF SEQ ID NOS: 81288

ERRORED SEQUENCES

44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 306
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Oryza sativa nipponbare
 49 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-A11
 E--> 51 <400> SEQUENCE: 2
 53 gaaggatgac cagggtgcag tggttctcaa gcatacttgg tagacatcat cccaagttaa 60
 55 aacacaaaaa aaaagataat ccggacgact tacaattaac cgagaaatcg aactgacatc 120
 57 atcccaagtt caaacacata aaatgagaat cccgacgact tacaattaaa cgagaaatcg 180
 59 tactgaaaat catgtgccga aacagcctaa cattttcttt gcctcaaggc gaacaatata 240
 61 cactgagaat cccacataac tatctggata catttgaaag tcaggaatag cacaaaatcc 300
 63 acctgt 306
 66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 70
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Oryza sativa nipponbare
 71 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-A12
 E--> 73 <400> SEQUENCE: 3
 75 caatcataac caccgccccg agtttttaaataaaaaatcacc tcctccacac taatcctcac 60
 77 tcaataactca 70
 80 <210> SEQ ID NO: 4
 81 <211> LENGTH: 534
 82 <212> TYPE: DNA
 83 <213> ORGANISM: Oryza sativa nipponbare
 85 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-A2
 E--> 87 <400> SEQUENCE: 4

missing mandatory <220> throughout

<220>

<220>

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

```

89 caagaacagc ttttttgag ttctctagaa ttttttagt ccaaacaaga atttacatgt 60
91 acaaaatact acatgtacga ctatattaat cacataaatc gactgaacaa atttacaccg 120
93 acacgtatca acctcatcta atgaacacat agcaacttgc cctcaaaaaa aacacacaca 180
95 cacatacaac ttgagtacca gtgagcttac ttcaggagct tggattcgat ctctccaaa 240
97 tgaaagtctt taatcttttg aacttttagg gtgacaaaca caaggagag caacgatatg 300
99 gctccaaata gaaggaaat attggctggc ccaaagaatt ccttgaaggg tggaaaggca 360
101 aatggtacca gtggaatttg agccgaaatt ttgtaagtac tgcaaggctg atcccacgtt 420
103 ctcttggtcg gagtgggaag atctcagaaa ccattagcca acttattgga ccaaacgata 480
105 cctggtgaaga accgacatag agaagtaaag caccaacagc gacaaaaggg aagc 534

```

164 <210> SEQ ID NO: 7

165 <211> LENGTH: 214

166 <212> TYPE: DNA

167 <213> ORGANISM: Oryza sativa nipponbare

169 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-A6

E--> 171 <400> SEQUENCE: 7

```

173 gggggggaat tttttttaa attaatgtt gaaaaaatt ttttttctgg ctttgggaaa 60
175 aaatttgga tgattaaaaa gggaaattta aaaattttta ttgaaaaatt ttaaataaaa 120
177 gacaagggtt tttggccct aaaaacaaaa aaaaaaattt ggggggtttt tttgcctaaa 180
179 aattaaacat aaagttttga gccttttttt tttt 214

```

182 <210> SEQ ID NO: 8

183 <211> LENGTH: 404

184 <212> TYPE: DNA

185 <213> ORGANISM: Oryza sativa nipponbare

187 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-A8

E--> 189 <400> SEQUENCE: 8

```

191 gccctcagac ttgatccttt aaagcgacag ctttgtttt ttttttttaa ctacaacagt 60
193 gctggagggt gggggaatat ttcgaggcca aacaagagtt cacatatata aaatactacc 120
195 tgtgcaagta tattaaggac ataaattgac tgaacaaatt tacaccgcca cgtatcaact 180
197 tcatgttatg aagggagaac agcttgccct caagaaaaac acacacacac atacaacttg 240
199 tggaccagtg agcttacttc aggagcttgg aatcgatctc ctccaatgta aagcctatag 300
201 tctctggaac tcttaggatg acaaacacag agcagggcaa cgatatggct ccaaatagaa 360
203 ggaaaatatg ggctgcccc aaggaatttct gcttgggtga aaag 404

```

206 <210> SEQ ID NO: 9

207 <211> LENGTH: 279

208 <212> TYPE: DNA

209 <213> ORGANISM: Oryza sativa nipponbare

211 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B1

E--> 213 <400> SEQUENCE: 9

```

215 aatccacttg taaatatttg tttgtgtttt tttcttcgat gtatataaac tctattttat 60
217 tatttaatac tccatccgtt ttgaaatgtt tgacgccgtt gactttttat cacatgtttg 120
219 accgttcgtc ttattcaaaa aatttaagta attattaatt tttttccatt catttaattc 180
221 attattaaat atatttttat gcgggcatat aattttacat atctgacaaa agtttttgaa 240
223 taagaccaac ggtcaaacat gtgcttaaaa ggcacggc 279

```

226 <210> SEQ ID NO: 10

227 <211> LENGTH: 465

228 <212> TYPE: DNA

229 <213> ORGANISM: Oryza sativa nipponbare

231 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B11

E--> 233 <400> SEQUENCE: 10

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

```

235 aactgggtag tttgcttga gttttatgaa tgaatacact acaaacagct aattacattg 60
237 accaacctaa tgaggttttt gactgagcag ctaaatcatc acagcaaata ggaggtacgc 120
239 agagcggtcac aaaagtaaac ccaacgctaa gctattacca tatagatata actgcctttc 180
241 aaaatattct ggacaaccaa cgagtacctt gtcgacaacc taccacctac atgctctgaa 240
243 aatgctgggtg atcgcgata tcatcatatt ccgcaaaagt tgcgtgagcc ccactctcaa 300
245 cagatgcac atcctctgtg acggcaaacc cagggtccat cacatcgacg ctacaagatg 360
247 agcttagcct gtcgctgga tggacacaaa gatgtttcct cacattcatt tcaggcacgt 420
249 cagtaaggac tgcagggaga atgttcacca gctggggatt acttg 465

```

252 <210> SEQ ID NO: 11

253 <211> LENGTH: 233

254 <212> TYPE: DNA

255 <213> ORGANISM: Oryza sativa nipponbare

257 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B3

E--> 259 <400> SEQUENCE: 11

```

261 ctatacacta tctatgacct agcattcaca cctacacaaa cttaaactct ctacatctac 60
263 acccctcttc tttttttttt aatacaatat taaaaacaac cttcgtattt ttttacattc 120
265 aaaaccaact ctattctatt aaataactct tcacacata taaaaatata ccactccacc 180
267 taatattacc cacacatctt acatacactc ctttattaca caacccttcc tct 233

```

270 <210> SEQ ID NO: 12

271 <211> LENGTH: 467

272 <212> TYPE: DNA

273 <213> ORGANISM: Oryza sativa nipponbare

275 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B5

E--> 277 <400> SEQUENCE: 12

```

279 gaaaaatagc gccggagtcg ctgtttcagg tacaagtttt gagttcaggt tggcatcaag 60
281 ccgcaagatt ttattctgga gcacaacatc tcggtgcccc agcagatcgg ggagagaaca 120
283 cagtcaaacc aaaaattcga gggaccccc ctctagtcca catttgaatt gttagaatct 180
285 gcataggttg cctagtctgc gtgagcaaac ttgatgccct tctcaatcga agacttgagc 240
287 tcacccttca ggttctccag accctccttt taaaactcgg aaagctggcc cagcccaagt 300
289 acttctctca ctccgttctt gccaaacctt acctttgagg cgaagaatgg cagctctgtt 360
291 actgttgatt gcacaaaaga gcactctaca acatcaggaa ctccattaag ccccttcaag 420
293 cagcgcctg caaataccgc accagcatat gccatagaca atgttgc 467

```

296 <210> SEQ ID NO: 13

297 <211> LENGTH: 298

298 <212> TYPE: DNA

299 <213> ORGANISM: Oryza sativa nipponbare

301 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B6

E--> 303 <400> SEQUENCE: 13

```

305 gcataataat acatcggaga tacgtacgta catacatacc cctctcgatc acacgcacca 60
307 tcgatcgatc aaagtgtcgt acatacatc gtacacacat atacgcatac gcacgtacat 120
309 acatacataa ttaaaaaactc gtaattattt aaatacgtat ttgatggcat ctctaattga 180
311 acttgaggct ggtgaggatg ttgttggtga cgggatcagc gaggtgatca agcaggttct 240
313 gcacggggcc aaccccggtg aagagcgctt ggacggagaa agccgggaag gcgagcat 298

```

316 <210> SEQ ID NO: 14

317 <211> LENGTH: 346

318 <212> TYPE: DNA

319 <213> ORGANISM: Oryza sativa nipponbare

321 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B7

E--> 323 <400> SEQUENCE: 14

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

```

325 gacagggaaa cgatcgtagt gccagttcat gcactactca tatttgatat ggaggggaac 60
327 caagtttgat ctgacaccta cttgataga tacacagcat aaaaggggca agttctacag 120
329 acctcagaag tttgttctgg actgcaattt acaagcaagg ggatgacagg gacgtcaagc 180
331 atgaacgata ggagccaatg attcaccgtc tagtgacagt aatcagtttt gcgattgact 240
333 ctgattatct tgcttagtag ggctttgcag tgctgtcact ttttgcggct gtcgtcttct 300
335 cagcggcaga agtgaaagac acagggaggt gcggtctggtc attcac 346

```

338 <210> SEQ ID NO: 15

339 <211> LENGTH: 295

340 <212> TYPE: DNA

341 <213> ORGANISM: Oryza sativa nipponbare

343 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-B9

E--> 345 <400> SEQUENCE: 15

```

347 gggcgctcga aacttcaaaa ttctcattac aaaggatcga gaggaagaag gaagaagtct 60
349 ggggaaaatt tttggagcga ggtggagtta caaaggcagc agcagcagca gcttctacgt 120
351 tctcacttcc actggttggc gacgatgtcg gcgaggtcga ccaccctctg cgggtatccc 180
353 cactcgttgt cggaccaggc gatgaccttc accatgtcgt cgcccatgac catgctgagc 240
355 gaccctgcca tgggtgcacga cacgtctgag cacctgaagt cgacggacac gagcg 295

```

390 <210> SEQ ID NO: 17

391 <211> LENGTH: 520

392 <212> TYPE: DNA

393 <213> ORGANISM: Oryza sativa nipponbare

395 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-C11

E--> 397 <400> SEQUENCE: 17

```

399 gtgagtaatg actaattgta taagaatcct atgaaagaaa tgttccacaa acgaaagaag 60
401 aatagaaaag tagtaaaaaa cactatgata gtgttttctt catcccctac agctgaacat 120
403 catgcactcc cgataagctc attgatcagc atgttcatgt tcatgttcat cgggactaat 180
405 cgtgctttcg atgtttatcc caatttcacc cctcaagaac ttggagtacc agtgagcaga 240
407 gatcttcggc tgccttggca aattggggtc ctcaaaatca acataatgca ggccgaatgg 300
409 cgaatgggat cctgctaaca gctcaaacac atcaagaaat gaccacacaa agtaaccctt 360
411 cacattggct ccattcctta gtgcagctag agtgcttccc atgtagctac tcaagtagtc 420
413 cactctatct gtgtcattga gtgaatcgct gtccttaccg aaatgcccgaa aacctaaaaa 480
415 atggtaaata gatgaacaaa aaaaaataga tcggtaaaga 520

```

482 <210> SEQ ID NO: 20

483 <211> LENGTH: 465

484 <212> TYPE: DNA

485 <213> ORGANISM: Oryza sativa nipponbare

487 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-C4

E--> 489 <400> SEQUENCE: 20

```

491 cccggaaagc acttttaaaag ggcttcatgc taattgataa tgtttcacgg ctcttcgaaa 60
493 catttgttta caattaccaa acaccagct tttaaatttac gtatgtatta caaactgctc 120
495 ccagattgat ttaaggataa aagagaagag tagaagatgt tcagagaaat ttcacagtac 180
497 cctcacaagc ctcatataaa gtgcaaaggt aactgtttta tttatcgaac aaacagctat 240
499 ggagtggttt gatacttctc agaaaaaaa aactaatggc cagaaatctc agaaacaatt 300
501 atgatgttgt gaacactgaa attaggctca tgggtcaggt tgcaactttt cacattcttc 360
503 tcttatcgac tgaaaaagga tagatgaaag gtacctctca ccaaagcttg gaaacacaac 420
505 cactaccaac tttccagcat tttctggtct ttttgcaact ttaat 465

```

508 <210> SEQ ID NO: 21

509 <211> LENGTH: 201

510 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

511 <213> ORGANISM: Oryza sativa nipponbare

513 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-C7

E--> 515 <400> SEQUENCE: 21

517 ctccatgggc attaattaac aactaattaa acaaggtacg tttttacacc tacacgtaca 60

519 cagtacatat acacttgaaa gaaagtctca atgatgcgca agcacaacaa tggcggcaaa 120

521 acctcggtag atcgatcgat cctcggaatt ctactcttcg tcgtcgacgc tgacaaactt 180

523 gccggtgccg gggttgatgg c 201

526 <210> SEQ ID NO: 22

527 <211> LENGTH: 526

528 <212> TYPE: DNA

529 <213> ORGANISM: Oryza sativa nipponbare

531 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-D1

E--> 533 <400> SEQUENCE: 22

535 aggagaaacc aaactcaaag ttgggttaat tagaggtatg tattaaggac cagaaatttc 60

537 ctttggaag gaaacaaaaa ggggctggga tttacatgtt catatacact ccatacaaga 120

539 tcttgatca tctgccctac caaagtacca accttaagtg cacagttttg ttttactaa 180

541 cttaaaatcc gaaaacctgg cacttataga acacctctgg atacccatcc atcgtccgat 240

543 tcttaaccct aaatcctgaa cccgaaacca taaaagcgtc acaccctac ataaaaaatg 300

545 cttctgctat agctgcagat tgatcatctc agctcatgag tgattcataa ctttgctaatt 360

547 cttgaagcat aaaaaagaga ggaggtgtct tgagccttca agaaacacgg agatttttgt 420

549 tccttgtggc acacagcttg ggtgcagga gctttgagat tcttgcagcg gcagggggag 480

551 ggcgcgcgaa actttcacga ggcgtgcatc tggtcgagga ggatga 526

554 <210> SEQ ID NO: 23

555 <211> LENGTH: 244

556 <212> TYPE: DNA

557 <213> ORGANISM: Oryza sativa nipponbare

559 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-D10

E--> 561 <400> SEQUENCE: 23

563 gacggtggac aggtcttctg cgtcaataac ttcattttacg gtcgttgttt caccttcatg 60

565 ttcttcaatt gcaggtggag caaggaatgt gaatggaggc tggtaaattgc caggacaaaa 120

567 gctagcatat aaacctgtgc cagtttcatt ttacaaggaa gaattataat gtttacagct 180

569 gccacacaaa agctgactat ccttaccac atacaggcgc gtgggcaagt ttaacacaaa 240

571 ttgt 244

574 <210> SEQ ID NO: 24

575 <211> LENGTH: 479

576 <212> TYPE: DNA

577 <213> ORGANISM: Oryza sativa nipponbare

579 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-D2

E--> 581 <400> SEQUENCE: 24

583 gggggggttg gttttcactc aaacaagatt tcttcaagct ttgtaacctg atcagattac 60

585 atcataggag taccctacat aaatattgaa tcatgagaga gagagagaga taggcaatga 120

587 gtaccagtt tcagatcaga actgaaattc caaatgacag aaattagtca ctgtttcagg 180

589 aagtctgcgt atattccaag ggttgctgcc cttttgcat gttcagcagc agtttgcatt 240

591 ttgacaatat gctttgctga ttcgatgcat tgccctctcc agtaacagga gaggaactg 300

593 aacatacaaa tatctagcct agctagctag ctacactcgt atgggcaatg gatgccaat 360

595 gcatatgcct ctctgtagca actggaacga aaagcaaaac tgttcttctc atcctgtaca 420

597 tctccctgat catgcagcct gcagctacgt acgtgtttgt cgctgaccaa gtatttatc 479

630 <210> SEQ ID NO: 26

631 <211> LENGTH: 274

RAW SEQUENCE LISTING

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:21:05

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

632 <212> TYPE: DNA

633 <213> ORGANISM: Oryza sativa nipponbare

635 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-D5

E--> 637 <400> SEQUENCE: 26

```

639 gggaagggct tgctgatata atatcaacat ggaggggtaca ttgccggttc catatgaaca    60
641 aacataaaaa caccgaaacc ccatatggcc attatgccga tcctagccta gcttggcgag    120
643 gacatcgcca agagcagatt tggatcaacgt gtagtacttc tccgcctctt cggggctctt    180
645 gatcttggct gcatggtcaa gccctcctcaat ggtggcgaag agcttgccgg tgaggtcctt    240
647 gaggcccttc ttctcgtcct tgggcttgga gttg                                274

```

650 <210> SEQ ID NO: 27

651 <211> LENGTH: 510

652 <212> TYPE: DNA

653 <213> ORGANISM: Oryza sativa nipponbare

655 <223> OTHER INFORMATION: Clone ID: LIB3431-052-P1-N1-D8

E--> 657 <400> SEQUENCE: 27

```

659 gacttaacaa ccagacaggt gaacagcatt taactaacaa attaaactag aaataacatt    60
661 aagtttccat aggaggttta ctggctggac ggacatacat gtataaacca gttccaagtt    120
663 ccagccattt tgcaactaat gcaaaaccta tatgagaaag acctatagaa ttaccgggtt    180
665 cacaggagac gttccacca tggaagcaga gggatgacca tggatgaactt taaaagctta    240
667 aggtgctctt tctttaaacg ctacaagttt attcttcagt actctcagta gtaccaattc    300
669 gagccgtcat tcttctgctg gccctgcatt gcgccggggg attcgacggc acctgacatg    360
671 ttgaaaccag agccgaacct gaactccgat gcgccattga tgtcgcccat ctggttaccg    420
673 aatggagtat cgtcgcggtg gaagaactgc tgctgtgccg ggggtggtctg ctgcggttgc    480
675 tgcacatgc cattgacatc ttcgaacaca                                510

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/837,604

DATE: 01/02/2003

TIME: 09:24:45

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240
L:51 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
L:73 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3
L:87 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:180
L:171 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:7
L:189 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:8
L:213 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:9
L:233 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:10
L:259 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:11
L:277 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:12
L:303 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:13
L:323 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:14
L:345 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:15
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:397 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:17
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:360
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:480
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:240
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:360
L:489 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:20
L:515 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:21
L:533 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:22
L:561 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:23
L:581 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:24
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:360
L:637 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:26
L:657 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:27
L:685 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:28
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:360
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:420
L:741 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:30
L:767 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:31
L:795 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:32
L:821 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:33
L:843 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:34
L:871 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:35
L:893 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:36
L:921 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:37
L:943 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:38
L:961 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:39
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:360
L:1011 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:41
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:360
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:420

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/837,604

DATE: 01/02/2003

TIME: 09:24:45

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

L:1061 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:43
L:1085 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:44
L:1113 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:45
L:1137 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:46
L:1165 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:47
L:1187 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:48
L:1233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:360
L:1245 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:50
L:1269 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:51
L:1289 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:52
L:1313 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:53
L:1337 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:54
L:1357 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:55
L:1379 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:56
L:1399 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:57
L:1421 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:58
L:1441 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:59
L:1463 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:60
L:1485 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:61
L:1629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:240
L:2005 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:360
L:2449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:420
L:2507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:360
L:2619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:360
L:2703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:360
L:2847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:480
L:3187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:480
L:3189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:540
L:3493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:300
L:3497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:420
L:3811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:540
L:3873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:0
L:3933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:360
L:4395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:360
L:4397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:420
L:4399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:480
L:4445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:180
L:4809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:360
L:5025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:360
L:5047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194 after pos.:0
L:5083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:360
L:5197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:360
L:5589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:240
L:5591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:300
L:5709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:420
L:6113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
L:6259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:420
L:6399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:60
L:6675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:300

VERIFICATION SUMMARY

DATE: 01/02/2003

PATENT APPLICATION: US/09/837,604

TIME: 09:24:45

Input Set : D:\Pa_00346.rpt

Output Set: N:\CRF4\01022003\I837604.raw

L:6787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260 after pos.:360
L:7063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270 after pos.:360
L:7115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:180
L:7377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:300
L:7379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:360